No 12

Remarks

On Cold

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ody be o fun a ten heald be sterest. Mowing le of the Ther side, lew our Previo Spect, et s to the The outget of cold word as a semily in dir. ease show of late excited considerable attention in the modical world.

In quotien whether the effect of this noble remady be caused by a stimulating or sodative power, from a kindemoy to whethish principles on which its use should be regulated, has an equal claim to attention to intend.

To consider this question is the intention of the following piece. In doing this we shall mertion a few of the principal arguments and facts wood on allier side, attempt to contrast them, and thence have our conclusion.

Nacious however to immediately enturns on the subject, it would not be improper to explain supply as to the mature of Cold. Cold is certainly a supply

sunce as let or cole New suppo + fut. sinly ele be the effect gover inding Let even to Julging . S monative quality, and cannot therefore be said to commone at any field spent. This is presen by the common experiment of making the same temperature appear
that or cold to the same body according to the different concambiness under which it had previously laboured.
Thus suppose the survey at 30: Fathersheit and suddendy reduced to 60. The sensation of cold would be zondown
to fall. Again, suppose the moreury at 50. 8 saddency elevated to 60. The opposite sensation would
be the effect:

We shall commence first, with the effects of intense celd upon the human body. These are langua indisposition to metion and so goest a desire to stop hat even the fear of certain death cannot prevent in lutying. In explaining these openions, the advocates to the stimulant deathine suppose the action of cold continues.

the effects of talse. Fro a quote 1 tell wat celd sta come dou we no dos ucumstan W water similar to that of opium, brandy & other stimule, which when used to exceps induce the same symptoms. To this uplanation we cannot readily apont when we consider The effects of cold water upon the system generally, I the pulse. From D' Curie's valuable publication on water, we quote the Jollowing illustrative fact. If the affusion of cell water on the surface of the body be used during) The cold stage of the paroxysm of Jever, the respiration is marly suspended; The pulse becomes fluttering, fielde. & of an incalculable Juquency, the surface of Extremities become doubly cold and shriveled and the patient seems to struggle with the panys of instant dissolution. I have no doubt from what I have observed, that in such circumstances, the repeated affusion of a few buckets of cold water would extinguish life.

From the above striking fact I think it will appear

In the fol Buill ouf ( sup) were & being lits I they mig Krat musco Unitted to a decisive a langest of H Was 12 strok waptible; in why obliteras ant could to Edher case widens, that the effects of cold instead of partaking of a stimabout nature, is as debetisating an agent as we can use.

In order to prove more particularly its effects on the pulse the following experiment from D' Stock's treatise on cold will suffice: it was made upon two histo porters; both (he says) were strong muscular men, I both in the vigour of life, being little more than thirty years old. It was thought hat they night without inconvenience bear immersion without muccular ftrength for a longer period than had been submitted to in any of the instances above cited . The result was decisive and satisfactory. In the first, who appeared the strongest of the two, the pulse was reduced in Jour mimules 12 stockes; in ten menutes 14 strokes, and scarcely perceptible; in about three minutes more, the pulse was warly obliterated; only twelve pulsations & those exceedingly faint could be made out in the space of half a minute." The other case was of the same nature & equally conclusive.

very much wase then It to the se Seconda beduced on s Was Her 11 litics doctrin Whe advocas & stature of Min corporeal akabilants of Qualander ( I may be used however that in most of the experiments made with cold water the pulse is considerably incursion in frequency, may that in most of the experiments made by the Author just queted, this was the result; but it night also to be observed, that the pulse in these instances to very much diminished in Josee & Julnefe. This in course then I conceive tends rether to detract from than able to the stimulant dictione.

Secribly. I has been common to notice the effects bolived on those persons who inhabit very methern laterated. We think this argument one of the pilars of the sature doctains, and has been left sutrofatently answered by the adversation of the appendix opinion than any other to status of the Saplander we are told, is smaller and her corporate and months indemnests inferious to the inhabitants of more temperate agains. The Seart of a questionated vays profesor telementable when in porfect

sa action, dich olime His the res part, but , solition eve seending to ting heat a noumulated Heing stron let always has contiguos health, does not pulsate oftener than from thirty to for. by times in a minute.

Thirdly. The increased deflusion from the nose which an exposure to a cold atmosphere always occassions, we are told, proves cold a stimulus; for in order it is contented to recrete more profusely the vefsels must take on a strongar action, this action can only be produced by a stimulus, which stimulus in this instance is widently cold. That cell is the remete cause of this increased secretion we readily grant, but that the phenomena is capable of a different solution we think wident. The cold in this instance according to our doctions) deliletates the part by abstrac. ting heat and of course, the excitability is very much accumulated; This excitability so accumulated is capable of being strongly acted whon by a very moderate stimulus . heat, always lending to an equilibrium, rushes from the buts contiguous, I is a sufficient stimulus under these

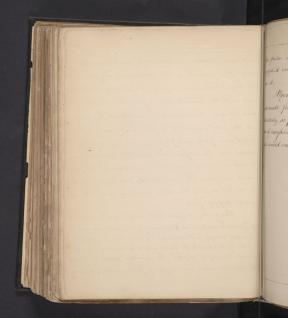
Thus w ton may be Touthe been for the Instical wor & improprie to gevers belse and timulus, wi but the sys In the contra & arterial a. saled state; Gurie what circumstances to excite the increases deflucion.

Thus would we replace the many envlances of mome and action which the application of cold purlices for we quant that cold under certain circumstances and modes of application may be made to freduce demulating effects.

Fourthap. We will now notice some of the rules laid Sown for the application of cold to the diseased system. Fractical writers on this subject, are careful to warn us of the impropriety of using cold affurious during the cold fet of fevers, on account of the dangerous senting of the Julse and consequent delility. Now, if cold be a stimulus, why would not these affusions land rather to brace the system as Cark Hother lonies or stimuli would? On the contrary when wood during the het stage, when The arterial action is great and the system in a highly weeted state, cold affusions are of infinite service. D. Curie whose esperiments appear to have been made with

st with vas for so spead over berned it . Our Gellow Fe mans of na boods by a bold water with equal candour and correctness mentions a studing case of a faction in the cold stage. In this state (he says) brine was dashed over him as would had not with the usual happy effects; his breathing was for some muniter almost suspended; his pulse at the would use not to be felt; the pulsations of the shart were fields and finitions, a duality coldeness spead over the surface; and finitions, a duality coldeness than the respiration natural of was short, angular and laborious. he presents and says "The same remore was however used in the hot stage of the ensuing faces, jour and with the usual happy effects."

Our worky prefixor of the institutio, in his account of pellown have a list was "Cold water was a most assessed by provided armedy in this discose, I directed it to be applied by mans of markans to his read, and to be injected into the bowdes by way of glyster". In another place he says Cold water when applied to the feet as certainly achieves the



the pulse in Jace and Juquency, so warm water, applied in the same way producer contrary effects on it.

Myon the whole we must confess ourselves an advocate for the sedative effect of celd, and more particularly so from its medical application, for in many cases of exopore arterial action when the application of stone will would endanger life, celd is especially useful.



